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Abstract

ADDRESS MECHANISMS IN INTERNET PROTOCOL

A method of verifying that a host coupled to an IP network is authorised to use an IP address which the host claims to own, the IP address comprising a routing prefix and an interface identifier part. The method comprises receiving from the host one or more components, applying a one-way coding function to the or each component and/or derivatives of the or each component, and comparing the result or a derivative of the result against the interface identifier part of the IP address. If the result or its derivative matches the interface identifier the host is assumed to be authorised to use the IP address and if the result or its derivative does not match the interface identifier the host is assumed not to be authorised to use the IP address.